

Gas Membrane Installation
Validation Report
Anthony Eden Drive,
Wrexham

Verification of gas protection measures

Site name:	Anthony Eden Drive, Wrexham	Units/ plots checked:	Plots 1-8 (Perimeters Only)
Job number:		Type of development:	Residential
Date:	22/10/14	Building description:	Housing
Visit by:	Ashley Ready	Foundation type:	Beam & Block
Weather at time of inspection:	Fine	Gas protection type:	Passive Ventilation With Membrane

Item no.	Item	Comments
1	Underside of membrane	Not Inspected by MEC.
2	Sub-floor void (ventilation)	Vent Void, contactor advised minimum 150mm Void. Not checked by MEC.
3	Membrane name and type	Membrane Used, Monarflex Reflex Super – Sand/Black. Self-Adhesive Gas Membrane.
4	Membrane condition	The membrane was installed to a good standard, the area was dielectrically tested for pinholes at 4K.V> No remedial work was required during our inspection and testing.
5	Seams/Joints (type)	Hot air hand welded.
6	Overlap Lapping design	150mm Minimum Overlap.
7	Condition of Laps, welds and joints seals	All welds were visually inspected and all found to be well made with no remedial action required at the time of inspection.
8	Service entries seals, columns etc (type, No.)	All pipe penetrations were sealed using self-adhesive gas membrane. All pipe penetrations completed to a good standard with no remedial work required during our visual inspection.
9	Ventilation Inlets and Outlets (type, spacing, No)	Not Inspected by MEC
10	Internal sleeper wall ventilation	Not Applicable.

	(type, spacing, No)	
11	External vent trenches/ ducts	Not Applicable.

Verification of gas protection measures

Site name:	Anthony Eden Drive, Wrexham	Units/ plots checked:	Plots 9-23 (Perimeters Only)
Job number:		Type of development:	Residential
Date:	05/11/14	Building description:	Housing
Visit by:	Mick Corban	Foundation type:	Beam & Block
Weather at time of inspection:	Fine	Gas protection type:	Passive Ventilation With Membrane

Item no.	Item	Comments
1	Underside of membrane	Not Inspected by MEC.
2	Sub-floor void (ventilation)	Vent Void, contactor advised minimum 150mm Void. Not checked by MEC.
3	Membrane name and type	Membrane Used, Monarflex Reflex Super – Sand/Black. Self-Adhesive Gas Membrane.
4	Membrane condition	The membrane was installed to a good standard, the area was dielectrically tested for pinholes at 4K.V> No remedial work was required during our inspection and testing.
5	Seams/Joints (type)	Hot air hand welded.
6	Overlap Lapping design	150mm Minimum Overlap.
7	Condition of Laps, welds and joints seals	All welds were visually inspected and all found to be well made with no remedial action required at the time of inspection.
8	Service entries seals, columns etc (type, No.)	All pipe penetrations were sealed using self-adhesive gas membrane. All pipe penetrations completed to a good standard with no remedial work required during our visual inspection.
9	Ventilation Inlets and	Not Inspected by MEC

	Outlets (type, spacing, No)	
10	Internal sleeper wall ventilation (type, spacing, No)	Not Applicable.
11	External vent trenches/ ducts	Not Applicable.

Verification of gas protection measures

Site name:	Anthony Eden Drive, Wrexham	Units/ plots checked:	Plots 1-6 Infills
Job number:		Type of development:	Residential
Date:	24/02/15	Building description:	Housing
Visit by:	Mick Corban	Foundation type:	Beam & Block
Weather at time of inspection:	Fine	Gas protection type:	Passive Ventilation With Membrane

Item no.	Item	Comments
1	Underside of membrane	Not Inspected by MEC.
2	Sub-floor void (ventilation)	Vent Void, contactor advised minimum 150mm Void. Not checked by MEC.
3	Membrane name and type	Membrane Used, Monarflex Reflex Super – Sand/Black. Self-Adhesive Gas Membrane.
4	Membrane condition	The membrane was installed to a good standard, the area was dielectrically tested for pinholes at 4K.V> No remedial work was required during our inspection and testing.
5	Seams/Joints (type)	Hot air hand welded.
6	Overlap Lapping design	150mm Minimum Overlap.
7	Condition of Laps, welds and joints seals	All welds Air Lance Tested by MEC. All welds were visually inspected and all found to be well made with no remedial action required at the time of inspection.

8	Service entries seals, columns etc (type, No.)	All pipe penetrations were Air Lance Tested by MEC. All pipe penetrations were sealed using self-adhesive gas membrane. All pipe penetrations completed to a good standard with no remedial work required during our visual inspection.
9	Ventilation Inlets and Outlets (type, spacing, No)	Not Inspected by MEC
10	Internal sleeper wall ventilation (type, spacing, No)	Not Applicable.
11	External vent trenches/ ducts	Not Applicable.

Verification of gas protection measures

Site name:	Anthony Eden Drive, Wrexham	Units/ plots checked:	Plots 14, 15, 16, 17, 20, 21, 22 and 23 Infills
Job number:		Type of development:	Residential
Date:	12/03/15	Building description:	Housing
Visit by:	Ashley Ready	Foundation type:	Beam & Block
Weather at time of inspection:	Fine	Gas protection type:	Passive Ventilation With Membrane

Item no.	Item	Comments
1	Underside of membrane	Not Inspected by MEC.
2	Sub-floor void (ventilation)	Vent Void, contactor advised minimum 150mm Void. Not checked by MEC.
3	Membrane name and type	Membrane Used, Monarflex Reflex Super – Sand/Black. Self-Adhesive Gas Membrane.
4	Membrane condition	The membrane was installed to a good standard, the area was dielectrically tested for pinholes at 4K.V> Plot 14, The installer had repaired 6no holes to damaged

		perimeter as part of their CQA prior to our inspection Plot 21, The installer had repaired 12no holes to damaged perimeter as part of their CQA prior to our inspection
5	Seams/Joints (type)	Hot air hand welded.
6	Overlap Lapping design	150mm Minimum Overlap.
7	Condition of Laps, welds and joints seals	All welds Air Lance Tested by MEC. All welds were visually inspected and all found to be well made with no remedial action required at the time of inspection.
8	Service entries seals, columns etc (type, No.)	All pipe penetrations were Air Lance Tested by MEC. All pipe penetrations were sealed using self-adhesive gas membrane. All pipe penetrations completed to a good standard with no remedial work required during our visual inspection.
9	Ventilation Inlets and Outlets (type, spacing, No)	Not Inspected by MEC
10	Internal sleeper wall ventilation (type, spacing, No)	Not Applicable.
11	External vent trenches/ducts	Not Applicable.

Verification of gas protection measures

Site name:	Anthony Eden Drive, Wrexham	Units/ plots checked:	Plot 9, 10, 11, 18 and 19 Infills
Job number:		Type of development:	Residential
Date:	22/04/15	Building description:	Housing
Visit by:	Ashley Ready	Foundation type:	Beam & Block
Weather at time of inspection:	Fine	Gas protection type:	Passive Ventilation With Membrane

Item no.	Item	Comments
1	Underside of membrane	Not Inspected by MEC.
2	Sub-floor void (ventilation)	Vent Void, contactor advised minimum 150mm Void. Not checked by MEC.
3	Membrane name and type	Membrane Used, Monarflex Reflex Super – Sand/Black. Self-Adhesive Gas Membrane.
4	Membrane condition	The membrane was installed to a good standard, the area was dielectrically tested for pinholes at 4K.V> Plot 10, The installer had repaired 44no to damaged perimeter holes as part of their CQA prior to our inspection. Plot 11, The installer had repaired 11no holes 44no to damaged perimeter as part of their CQA prior to our inspection. No further remedial work was required during our visual inspection.
5	Seams/Joints (type)	Hot air hand welded.
6	Overlap Lapping design	150mm Minimum Overlap.
7	Condition of Laps, welds and joints seals	All welds Air Lance Tested by MEC. All welds were visually inspected and all found to be well made with no remedial action required at the time of inspection.

8	Service entries seals, columns etc (type, No.)	All pipe penetrations were Air Lance Tested by MEC. All pipe penetrations were sealed using self-adhesive gas membrane. All pipe penetrations completed to a good standard with no remedial work required during our visual inspection.
9	Ventilation Inlets and Outlets (type, spacing, No)	Not Inspected by MEC
10	Internal sleeper wall ventilation (type, spacing, No)	Not Applicable.
11	External vent trenches/ ducts	Not Applicable.

Verification of gas protection measures

Site name:	Anthony Eden Drive, Wrexham	Units/ plots checked:	Plot 7,8 12,13 Infills
Job number:		Type of development:	Residential
Date:	14/05/15	Building description:	Housing
Visit by:	Mick Corban	Foundation type:	Beam & Block
Weather at time of inspection:	Fine	Gas protection type:	Passive Ventilation With Membrane

Item no.	Item	Comments
1	Underside of membrane	Not Inspected by MEC.
2	Sub-floor void (ventilation)	Vent Void, contactor advised minimum 150mm Void. Not checked by MEC.
3	Membrane name and type	Membrane Used, Monarflex Reflex Super – Sand/Black. Self-Adhesive Gas Membrane.
4	Membrane condition	The membrane was installed to a good standard, the area was dielectrically tested for pinholes at 4K.V> Plot 7, The installer had repaired 15no holes as part of their CQA prior to our inspection. Plot 12, The installer had repaired 17no holes as part of

		their CQA prior to our inspection. No further remedial work was required during our visual inspection.
5	Seams/Joints (type)	Hot air hand welded.
6	Overlap Lapping design	150mm Minimum Overlap.
7	Condition of Laps, welds and joints seals	All welds Air Lance Tested by MEC. All welds were visually inspected and all found to be well made with no remedial action required at the time of inspection.
8	Service entries seals, columns etc (type, No.)	All pipe penetrations were Air Lance Tested by MEC. All pipe penetrations were sealed using self-adhesive gas membrane. All pipe penetrations completed to a good standard with no remedial work required during our visual inspection.
9	Ventilation Inlets and Outlets (type, spacing, No)	Not Inspected by MEC
10	Internal sleeper wall ventilation (type, spacing, No)	Not Applicable.
11	External vent trenches/ducts	Not Applicable.

Photographs

No.	Description	No.	Description
1	General Membrane Overview.	10	General Membrane Overview.
2	General Membrane Overview.	11	General Membrane Overview.
3	Typical Sealed Pipe Penetrations.	12	General Membrane Overview.
4	General Membrane Overview.	13	Typical Sealed Pipe Penetration.
5	General Membrane Overview.	14	General Membrane Overview.
6	General Membrane Overview.	15	General Membrane Overview.
7	General Site Overview.	16	Typical Sealed Pipe Penetrations.

8	General Membrane Overview.	17	
9	Typical Sealed Pipe Penetrations.	18	



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2



3



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6



7



8



9



10



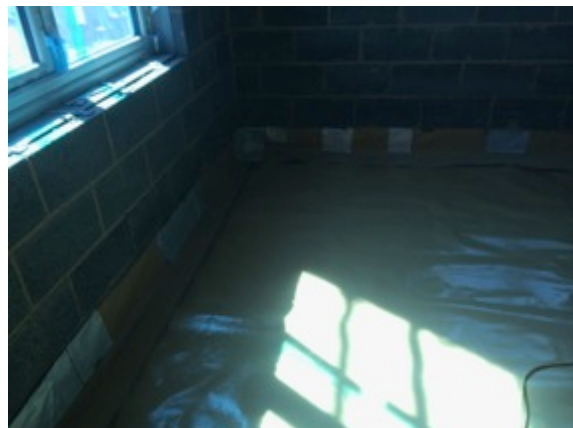
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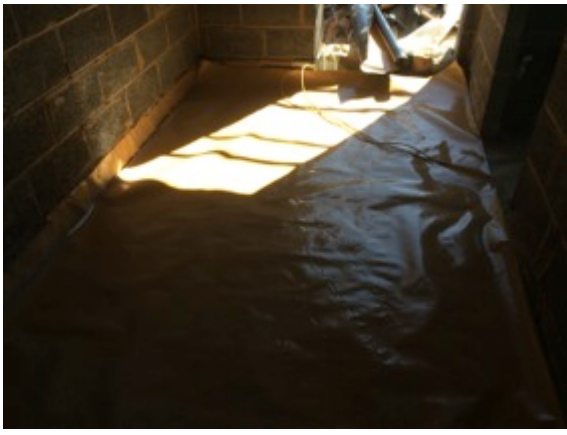
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14



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The installation has PASSED inspection and testing, furthermore we can confirm the number of properties independently inspected and tested exceeds the recommended minimum quantities stated in CIRIA C735 "Good practice on the testing and verification of protection systems for buildings against hazardous ground gases"

Signed:

Date: 10/06/15